

Chris Bohr Farm  
CPCF00033  
Callaway County



Jeremiah W. (Jay) Nixon, Governor

Sara Parker Pauley, Director

## DEPARTMENT OF NATURAL RESOURCES

[dnr.mo.gov](http://dnr.mo.gov)

Chris and Della Bohr  
11553 CR 1054  
Martinsburg, MO 65264

Dear Mr. & Mrs. Bohr:

Enclosed please find your Construction Permit Number CPCF00033 for a no-discharge animal feeding operation manure management system. No-discharge means that the entire system from storage through final land application has been designed to operate without discharges to waters of the state.

This approval is for the construction of one 4800 head deep pit wean to finish swine barn based on the engineering plans and specifications approved by the program. Additional conditions are contained in the construction permit.

This approval does not authorize operation of these systems. When system construction is completed:

1. Part one of the enclosed application Form F should be filled out and signed by the owner;
2. Part two of the form, engineer's certification of the constructed project, should be completed by the engineer;
3. The completed form with any construction changes noted and as-built plans should then be submitted to the Water Protection Program for an operating permit for the system.

If you were affected by this decision, you may appeal to have the matter heard by the administrative hearing commission. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission.

Please feel free to contact Diane Reinhardt at (573) 751-6568 or P.O. Box 176, Jefferson City, Missouri 65102 if we can be of further assistance.

Sincerely,

WATER PROTECTION PROGRAM

Darrick Steen, P.E.  
Agricultural Unit Chief

Enclosure

c: Jeff Browning, Great River Engineering  
Northeast Regional Office



STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES  
MISSOURI CLEAN WATER COMMISSION



## CONSTRUCTION PERMIT

The Missouri Department of Natural Resources hereby issues a permit to:

Chris & Della Bohr

for the construction of (described facilities):

One 4800 head deep pit wean to finish swine barn based on the plans received by the Water Protection Program

Permit Conditions:

**See attached sheets**

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Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources.

As the Department of Natural Resources does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the department may inspect the work covered by this permit during construction. Issuance of a permit to Operate by the department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

April 14, 2011  
Effective Date

  
Sara Parker Pauley, Director, Department of Natural Resources

April 13, 2012  
Expiration Date

  
John Madras, Director, Water Protection Program

**DETAILED OPERATION DESCRIPTION  
For Concentrated Animal Feeding Operations  
Construction Permit**

<b>FACILITY INFORMATION</b>
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Operation: Chris Bohr Farm Class: IC

Operation Address: 11553 CR 1054, Martinsburg, MO 65264

Owner: Chris & Della Bohr

Owner Address: 11553 CR 1054, Martinsburg, MO 65264

Continuing Authority: Chris & Della Bohr

Continuing Authority Address: 11553 CR 1054, Martinsburg, MO 65264

Primary SIC Code (Discharge): 0213

Primary SIC Code (Industry): 0213

<b>DESIGN APPROVED FOR THIS OPERATION</b>
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Number and Type of Animals: 4800 swine over 55 pounds

Animal Units: 1920

Total Design Flow (gpd): 5930

Land Application Acres -

Owned: 78

Under Spreading Agreement: 734

Total: 812

Land Application Equipment: Tankwagon

Mortality Management: Composter

**Feature #001:**

Feature Description: Deep pit swine barn

Legal Description: SW ¼, NW ¼, Sec 12, T49N, R7W, Callaway County

UTM Coordinate: X = 616482 Y = 4321670

Receiving Water: Tributary to Brushy Branch

First Classified Stream and ID: Brushy Branch 1634 (C)

USGS Basin & Sub-Watershed No: 10300200-030001

Number and Type of Animals: 4800 swine over 55 pounds

Animal Units: 1920

Storage Structure Type: Underfloor pit

Storage structure size (at overflow level) -

Surface Area (sq. ft.): 39,200

Total Depth (ft.): 8.0

Total Storage Capacity (gal.): 2,345,728

Storage structure operating levels -

Upper pumpdown level: 1.0 (feet below overflow)

Area draining into storage basin (acres): 0

Design Storage Below Upper Pumpdown Level (days) - 346

Wastewater Volume (gal/yr.) - 2,164,230

Biosolids Volume (tons/yr.): 20

**Design Storm Events (in.) -**

1 in 25 yr. 24 hr.: 5.9    1 in 10 yr. 10 day: 7.5    1 in 10 yr. 365 day: 49.5    Average 365 day: 37.0

**Additional Operational Description:** This is a wean to finish swine operation. 4800 head of weanlings to finishers are confined in a 71' x 565' deep pit barn. Mortalities are composted.

**SECTION A. GENERAL CONSTRUCTION CONDITIONS**

- (1) Additional construction specifications contained in the application and engineering plans and standard specifications shall be followed.
- (2) This permit does not authorize operation of these manure management systems. Upon completion of construction of all components covered by this permit, follow the steps outlined in the cover letter to this permit to apply for an operating permit.
- (3) Issuance of a permit for operation of these systems will be contingent on the work substantially adhering to the approved plans and specifications. Contact the design engineer and the department before making substantial deviations from the approved plans and specifications. Department staff will determine whether the changes will be allowed and whether the changes require a change order to the construction permit and/or additional neighbor notifications. Major changes may require a new construction permit.
- (4) All cleanouts installed at the approved operation shall be clearly marked with a post that is visible during all stages of vegetative growth.
- (5) As the Missouri Department of Natural Resources does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.
- (6) Issuance of a permit for operation of these systems will be contingent on the work substantially adhering to the approved plans and specifications. Contact the design engineer and the department before making substantial deviations from the approved plans and specifications. Department staff will determine whether the changes will be allowed and whether the changes require a change order to the construction permit and/or additional neighbor notifications. Major changes may require a new construction permit.

**SECTION B. COMPOSTERS**

Construction permits are not required for the composting of dead animals at Class IC or smaller operations when –

- A. The compost operation and raw materials storage are located in enclosed buildings with impermeable floors; or
- B. The unroofed compost area covers less than five thousand (5,000) square feet and is underlain with an impermeable floor, and raw materials are covered by a tarp or impermeable cover.

Traditional hay bale composters are not allowed as a permanent mortality management method at Class IC and larger CAFOs. Hay bale composters are allowed only on a temporary basis, not to exceed 18 months.

**SECTION C. PROJECT SPECIFIC REQUIREMENTS**

There are no site-specific requirements for this project.